# EAST Search History

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|---|---|---|---|---|---|---|
| S3 | 38 | client and server and (access$3 near4 restrict$5) and (display$3 near3 reason) and http | US-PGPUB; USPAT; USOCR | OR | ON | 2004/11/05 21:45 |
| S2 | 58 | client and server and (access$3 near4 restrict$5) and (display$3 near3 reason) | US-PGPUB; USPAT; USOCR | OR | ON | 2004/11/05 21:45 |
| S5 | 137 | client and server and (reason near3 restrict$5) | US-PGPUB; USPAT; USOCR | OR | ON | 2004/11/05 21:49 |
| S4 | 34 | client and server and (access$3 near4 restrict$5) and (display$3 near3 reason) and http and (time near3 information) | US-PGPUB; USPAT; USOCR | OR | ON | 2004/11/05 21:49 |
| S7 | 67 | (reason near3 restrict$5) and (web near3 server) | US-PGPUB; USPAT; USOCR | OR | ON | 2004/11/05 21:51 |
| S6 | 9 | client and server and (reason near3 restrict$5) and judg$3 and detect$3 | US-PGPUB; USPAT; USOCR | OR | ON | 2004/11/05 21:51 |
| S8 | 32 | (reason near3 restrict$5) and (web near3 server) and (time near3 information) | US-PGPUB; USPAT; USOCR | OR | ON | 2004/11/05 21:52 |
| S10 | 0 | (access$3 near3 forbidden) and (display$3 near3 reason) | US-PGPUB; USPAT; USOCR | OR | ON | 2004/11/05 21:55 |
| S9 | 28 | (access$3 near3 forbidden) and (web near3 server) and (time near3 information) | US-PGPUB; USPAT; USOCR | OR | ON | 2004/11/05 21:55 |
| S13 | 0 | "403 restriction" | US-PGPUB; USPAT; USOCR | OR | ON | 2004/11/05 21:58 |
| S12 | 41 | (access$3 near3 restrict$5) and (display$3 near3 reason) and http | US-PGPUB; USPAT; USOCR | OR | ON | 2004/11/05 21:58 |
| S15 | 449 | (access$3 near4 restrict$3) and (display$3 near3 message) and reason and client and server and http | US-PGPUB; USPAT; USOCR | OR | ON | 2004/11/05 21:59 |
| S14 | 1990 | (access$3 near4 restrict$3) and (display$3 near3 message) | US-PGPUB; USPAT; USOCR | OR | ON | 2004/11/05 21:59 |
| S16 | 0 | (web$$page near3 restrict$5) and (display$3 near3 reason) | US-PGPUB; USPAT; USOCR | OR | ON | 2004/11/05 22:20 |

# EAST Search History

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|---|---|---|---|---|---|---|
| S11 | 85 | (access$3 near3 restrict$5) and (display$3 near3 reason) | US-PGPUB; USPAT; USOCR | OR | ON | 2004/11/05 22:20 |
| S20 | 43 | (page near3 access$3)and (restrict$5 near3 reason) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2004/11/05 22:21 |
| S19 | 0 | (web$$page near3 access$3)and (restrict$5 near3 reason) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2004/11/05 22:21 |
| S18 | 0 | (web$$page near3 access$3)and (restrict$5 near3 reason) | US-PGPUB; USPAT; USOCR | OR | ON | 2004/11/05 22:21 |
| S17 | 0 | (web$$page near3 access$3)and restrict$3 and (display$3 near3 reason) | US-PGPUB; USPAT; USOCR | OR | ON | 2004/11/05 22:21 |
| S22 | 209 | (access$3 near10 restrict$5) and (display$3 near6 reason) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2004/11/05 22:23 |
| S21 | 23 | (page near3 access$3)and (restrict$5 near3 reason) and browser | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2004/11/05 22:23 |
| S24 | 89 | (access$3 near10 restrict$5) and (display$3 near6 reason) and (web near3 server) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2004/11/05 22:24 |
| S23 | 114 | (access$3 near10 restrict$5) and (display$3 near6 reason) and web | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2004/11/05 22:24 |
| S27 | 75 | (access$3 near10 restrict$5) and (display$3 near6 reason) and (server) and (client) and http | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2004/11/05 22:27 |
| S25 | 53 | (access$3 near10 restrict$5) and (display$3 near6 reason) and (web near3 server) and (web near3 client) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2004/11/05 22:27 |

# EAST Search History

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|---|---|---|---|---|---|---|
| S26 | 116 | (access$3 near10 restrict$5) and (display$3 near6 reason) and (server) and (client) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2004/11/05 22:32 |
| S29 | 927 | (access$3 same restrict$3).ti. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2004/11/05 22:41 |
| S28 | 24 | (page adj3 access$3 adj3 restrict$3) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2004/11/05 22:41 |
| S32 | 136 | (access$3 same restrict$3).ti. | US-PGPUB; USPAT; USOCR | OR | ON | 2004/11/05 22:44 |
| S31 | 0 | (display$3 same access$3 same restrict$3).ti. | US-PGPUB; USPAT; USOCR | OR | ON | 2004/11/05 22:44 |
| S30 | 19 | (display$3 same access$3 same restrict$3).ti. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2004/11/05 22:44 |
| S33 | 68 | (access$3 same restrict$3).ti. and display$3 | US-PGPUB; USPAT; USOCR | OR | ON | 2004/11/06 12:08 |
| S34 | 373 | (access$3 same restrict$3) and (display$3 near10 reason) | US-PGPUB; USPAT; USOCR | OR | ON | 2004/11/06 12:09 |
| S35 | 100 | (access$3 same restrict$3) and (display$3 near10 reason) and (web near3 server) | US-PGPUB; USPAT; USOCR | OR | ON | 2004/11/06 12:10 |
| S36 | 85 | (access$3 near10 restrict$3) and (display$3 near10 reason) and (web near3 server) | US-PGPUB; USPAT; USOCR | OR | ON | 2004/11/06 12:11 |
| S39 | 4 | (access$3 near10 forbid$7) and (display$3 near10 reason) and (web near3 server) | US-PGPUB; USPAT; USOCR | OR | ON | 2004/11/06 12:14 |
| S38 | 4 | (access$3 near10 forbid$5) and (display$3 near10 reason) and (web near3 server) | US-PGPUB; USPAT; USOCR | OR | ON | 2004/11/06 12:14 |
| S37 | 6 | (access$3 near10 prohibit$3) and (display$3 near10 reason) and (web near3 server) | US-PGPUB; USPAT; USOCR | OR | ON | 2004/11/06 12:14 |

# EAST Search History

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|---|---|---|---|---|---|---|
| S40 | 5 | (access$3 near10 forbid$7) and (display$3 near10 reason) | US-PGPUB; USPAT; USOCR | OR | ON | 2004/11/06 12:16 |
| S41 | 4 | (access$3 near10 forbid$7) and (send$3 near10 reason) | US-PGPUB; USPAT; USOCR | OR | ON | 2004/11/06 12:17 |
| S42 | 164 | (access$3 near10 restrict$7) and (send$3 near10 reason) | US-PGPUB; USPAT; USOCR | OR | ON | 2004/11/06 12:18 |
| S44 | 1 | ("6732179").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2004/11/06 12:21 |
| S43 | 59 | (access$3 near10 restrict$7) and (send$3 near10 reason) and (web near3 server) | US-PGPUB; USPAT; USOCR | OR | ON | 2004/11/06 12:21 |
| S47 | 1 | "6351812".PN. | USPAT; USOCR | OR | ON | 2004/11/06 12:26 |
| S46 | 1 | "6505300".PN. | USPAT; USOCR | OR | ON | 2004/11/06 12:26 |
| S45 | 1 | "6515598".PN. | USPAT; USOCR | OR | ON | 2004/11/06 12:26 |
| S49 | 1 | "6321337".PN. | USPAT; USOCR | OR | ON | 2004/11/06 12:27 |
| S48 | 1 | "6343324".PN. | USPAT; USOCR | OR | ON | 2004/11/06 12:27 |
| S50 | 1 | ("20010052018").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2004/11/06 14:10 |
| S51 | 1 | ("6693649").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2004/11/06 15:28 |
| S53 | 1 | ("6182140").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2004/11/06 15:32 |
| S52 | 1 | ("6715126").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2004/11/06 15:32 |
| S1 | 167 | client and server and (reason near4 restrict$5) | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/15 10:40 |
| S56 | 37 | (get near10 if$$modified$$since) and access$3 | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/15 10:41 |
| S55 | 37 | (get near10 if$$modified$$since) | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/15 10:41 |

# EAST Search History

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|---|---|---|---|---|---|---|
| S54 | 0 | ("(getnear10if$$modified$$since)"). PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/04/15 10:41 |
| S57 | 4 | (get near10 if$$modified$$since) and (restrict$3 near5 access$3) | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/15 10:44 |
| S59 | 15 | (get near10 if$$modified$$since) and (restrict$3 and cach$3 and access$3) and imag$3 | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/15 10:45 |
| S58 | 25 | (get near10 if$$modified$$since) and (restrict$3 and cach$3 and access$3) | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/15 10:46 |
| S60 | 16 | (get near10 if$$modified$$since) and (restrict$3 and cach$3 and access$3) and printer | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/15 10:49 |
| S61 | 10 | (get near10 if$$modified$$since) and (restrict$3 and access$3) and (cach$3 near5 updat$3) | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/15 11:10 |
| S62 | 1 | (get near10 if$$modified$$since) and (restrict$3 and access$3) and (cach$3 near5 updat$3) and reason | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/15 11:11 |
| S63 | 2 | (get near10 if$$modified$$since) and (restrict$3 and access$3) and (cach$3 near5 updat$3) and reason$3 | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/15 11:12 |
| S66 | 11 | (if$$modified$$since) and (restrict$3 and reason$3) and (cach$3 near5 updat$3) | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/15 11:21 |
| S67 | 60 | (if$$modified$$since) and (restrict$3 and access$3) and (cach$3) | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/15 11:26 |
| S65 | 24 | (if$$modified$$since) and (restrict$3 and access$3) and (cach$3 near5 updat$3) | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/15 11:26 |
| S69 | 1 | (if$$modified$$since) and (restrict$3 near10 access$3 near10 reason$3) | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/15 11:34 |
| S68 | 12 | (if$$modified$$since) and (restrict$3 near10 access$3) and (cach$3) | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/15 11:34 |
| S71 | 1 | (if$$modified$$since) and (restrict$3 near10 reason$3) | US-PGPUB; USPAT; USOCR; JPO | OR | ON | 2006/04/15 11:35 |
| S70 | 1 | (if$$modified$$since) and (restrict$3 near10 access$3 near10 reason$3) | US-PGPUB; USPAT; USOCR; JPO | OR | ON | 2006/04/15 11:35 |

# EAST Search History

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|---|---|---|---|---|---|---|
| S74 | 0 | (if$$modified$$since) and (unauthoriz$7 same reason$3) | US-PGPUB; USPAT; USOCR; JPO | OR | ON | 2006/04/15 11:36 |
| S73 | 0 | (if$$modified$$since) and (un$$authoriz$7 same reason$3) | US-PGPUB; USPAT; USOCR; JPO | OR | ON | 2006/04/15 11:36 |
| S72 | 3 | (if$$modified$$since) and (restrict$3 same reason$3) | US-PGPUB; USPAT; USOCR; JPO | OR | ON | 2006/04/15 11:36 |
| S76 | 20 | (if$$modified$$since) and (access$3 same reason$3) | US-PGPUB; USPAT; USOCR; JPO | OR | ON | 2006/04/15 11:37 |
| S75 | 2 | (if$$modified$$since) and (authoriz$7 same reason$3) | US-PGPUB; USPAT; USOCR; JPO | OR | ON | 2006/04/15 11:37 |
| S78 | 13 | (if$$modified$$since) and (access$3 near10 restrict$3) | US-PGPUB; USPAT; USOCR; JPO | OR | ON | 2006/04/15 11:38 |
| S77 | 13 | (if$$modified$$since) and (access$3 same reason$3) and restrict$3 | US-PGPUB; USPAT; USOCR; JPO | OR | ON | 2006/04/15 11:38 |
| S64 | 10 | (get near10 if$$modified$$since) and (restrict$3 and access$3) and (cach$3 near5 updat$3) | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/15 12:00 |
| S80 | 1 | ("20030137933").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/04/15 12:23 |
| S79 | 1 | ("6944124").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/04/15 12:23 |
| S82 | 1 | ("5956662").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/04/17 17:26 |
| S81 | 1 | ("6138162").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/04/17 17:26 |
| S83 | 1 | ("5956626").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/04/17 17:52 |

# EAST Search History

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|---|---|---|---|---|---|---|
| S84 | 1 | ("20030055977").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/04/18 08:53 |
| S89 | 42 | (dustin).xa. | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/18 08:54 |
| S88 | 0 | (dustin).xp. | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/18 08:54 |
| S87 | 42 | (dustin).xa. | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/18 08:54 |
| S86 | 0 | "dustin.xa" | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/18 08:54 |
| S85 | 2235 | (dustin)".xa" | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/18 08:54 |
| S92 | 66 | (phuoc near4 nguyen).xa. | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/18 08:55 |
| S91 | 295 | (phuoc).xa. | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/18 08:55 |
| S90 | 125 | (chat).xa. | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/18 08:55 |
| S93 | 66 | phuoc.xa. and nguyen.xa. | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/18 09:52 |
| S94 | 13 | (if$$since) and (access$3 near4 restrict$3) | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/18 09:53 |
| S97 | 0 | (if$$since) and (forbid$4 near10 reason$3) | US-PGPUB; USPAT; USOCR; EPO; JPO | OR | ON | 2006/04/18 10:12 |
| S96 | 2 | (if$$since) and (restrict$3 near10 reason$3) | US-PGPUB; USPAT; USOCR; EPO; JPO | OR | ON | 2006/04/18 10:12 |
| S95 | 2 | (if$$since) and (restrict$3 near10 reason$3) | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/18 10:12 |
| S98 | 1 | (if$$since) and (forbid$4 near10 access$3) | US-PGPUB; USPAT; USOCR; EPO; JPO | OR | ON | 2006/04/18 10:13 |

# EAST Search History

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|---|---|---|---|---|---|---|
| S99 | 13 | (if$$since) and (reason$3 near10 access$3) | US-PGPUB; USPAT; USOCR; EPO; JPO | OR | ON | 2006/04/18 10:14 |
| S100 | 6 | (if$$since) and (forbid$4 and restrict$3 and reason$3) | US-PGPUB; USPAT; USOCR; EPO; JPO | OR | ON | 2006/04/18 10:15 |
| S102 | 6 | (if$$since) and (forbid$4 and reason$3) | US-PGPUB; USPAT; USOCR; EPO; JPO | OR | ON | 2006/04/18 10:17 |
| S101 | 41 | (if$$since) and (restrict$3 and reason$3) | US-PGPUB; USPAT; USOCR; EPO; JPO | OR | ON | 2006/04/18 10:17 |
| S103 | 6 | if$$since and (denied near4 reason) | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/18 10:23 |
| S104 | 2 | if$$since and (restrict$3 near4 reason) | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/18 10:24 |
| S105 | 6 | if$$since and (forbid$4) | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/18 10:25 |
| S106 | 31 | if$$since and (status adj4 code) | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/18 10:26 |
| S107 | 16 | if$$since and (status adj4 code) and (restrict$3 or forbid$4) | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/18 10:31 |
| S109 | 2 | if$$since and (status near10 code near10 (reason$3)) | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/18 10:32 |
| S108 | 1 | if$$since and (status near10 code near10 (forbid$4 or restrict$3)) | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/18 10:32 |
| S110 | 11 | if$$since and (code near10 (reason$3)) | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/18 10:33 |
| S113 | 28 | if$$since and (code near10 (http)) and (restrict$3 or forbid$4) | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/18 10:34 |
| S112 | 5 | if$$since and (code near10 (http)) and restrict$3 and forbid$4 | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/18 10:34 |

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|---|---|---|---|---|---|---|
| S111 | 45 | if$$since and (code near10 (http)) | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/18 10:46 |
| S114 | 0 | if$$since and (access$3 near5 (denied or reject$3) near5 explain$6) | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/18 10:47 |
| S115 | 8 | if$$since and ((denied or reject$3) near5 explain$6) | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/18 10:49 |
| S116 | 1 | if$$since and ((restrict$3 or forbid$4) near5 explain$6) | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/18 10:50 |
| S118 | 8 | if$$since and (access$3 near5 (denied or reject$3)) | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/18 10:51 |
| S117 | 0 | if$$since and ((unauthoriz$6) near5 explain$6) | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/18 10:51 |
| S123 | 1 | "6070184".PN. | USPAT; USOCR | OR | ON | 2006/04/18 10:57 |
| S122 | 1 | "6070184".PN. | USPAT; USOCR | OR | ON | 2006/04/18 10:57 |
| S121 | 1 | "6085193".PN. | USPAT; USOCR | OR | ON | 2006/04/18 10:57 |
| S120 | 1 | "6151601".PN. | USPAT; USOCR | OR | ON | 2006/04/18 10:57 |
| S119 | 1 | "6212560".PN. | USPAT; USOCR | OR | ON | 2006/04/18 10:57 |
| S128 | 1 | "6012083".PN. | USPAT; USOCR | OR | ON | 2006/04/18 10:58 |
| S127 | 1 | "6032184".PN. | USPAT; USOCR | OR | ON | 2006/04/18 10:58 |
| S126 | 1 | "6038601".PN. | USPAT; USOCR | OR | ON | 2006/04/18 10:58 |
| S125 | 1 | "6038601".PN. | USPAT; USOCR | OR | ON | 2006/04/18 10:58 |
| S124 | 1 | "6065058".PN. | USPAT; USOCR | OR | ON | 2006/04/18 10:58 |
| S130 | 0 | (access$3 near4 (restrict$3 or forbid$4)) and (condition$3 near4 get) and (under near4 maintenance) | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/18 10:59 |
| S129 | 82 | (access$3 near4 (restrict$3 or forbid$4)) and (condition$3 near4 get) | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/18 10:59 |

# EAST Search History

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|---|---|---|---|---|---|---|
| S131 | 59 | (access$3 near4 (restrict$3 or forbid$4)) and (condition$3 near4 get) and (reason$3) | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/18 11:00 |
| S132 | 30 | (access$3 near4 (restrict$3 or forbid$4)) and (condition$3 near4 get) and (reason$3) and cach$3 | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/18 11:01 |
| S135 | 1 | "6161134".PN. | USPAT; USOCR | OR | ON | 2006/04/18 11:03 |
| S134 | 1 | "6216618".PN. | USPAT; USOCR | OR | ON | 2006/04/18 11:03 |
| S137 | 1 | "5867665".PN. | USPAT; USOCR | OR | ON | 2006/04/18 11:04 |
| S136 | 1 | "6076109".PN. | USPAT; USOCR | OR | ON | 2006/04/18 11:04 |
| S133 | 1 | ("6353855").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/04/18 11:04 |
| S143 | 1 | "6307573".PN. | USPAT; USOCR | OR | ON | 2006/04/18 11:06 |
| S142 | 1 | "6345294".PN. | USPAT; USOCR | OR | ON | 2006/04/18 11:06 |
| S141 | 1 | "6571279".PN. | USPAT; USOCR | OR | ON | 2006/04/18 11:06 |
| S140 | 1 | "6615255".PN. | USPAT; USOCR | OR | ON | 2006/04/18 11:06 |
| S139 | 1 | "6732162".PN. | USPAT; USOCR | OR | ON | 2006/04/18 11:06 |
| S145 | 1 | "6289372".PN. | USPAT; USOCR | OR | ON | 2006/04/18 11:07 |
| S144 | 1 | "6307573".PN. | USPAT; USOCR | OR | ON | 2006/04/18 11:07 |
| S146 | 1 | "6438716".PN. | USPAT; USOCR | OR | ON | 2006/04/18 11:08 |
| S151 | 1 | "6134680".PN. | USPAT; USOCR | OR | ON | 2006/04/18 11:09 |
| S150 | 1 | "6202087".PN. | USPAT; USOCR | OR | ON | 2006/04/18 11:09 |
| S149 | 1 | "6273622".PN. | USPAT; USOCR | OR | ON | 2006/04/18 11:09 |
| S148 | 1 | "6421715".PN. | USPAT; USOCR | OR | ON | 2006/04/18 11:09 |
| S147 | 1 | "6421740".PN. | USPAT; USOCR | OR | ON | 2006/04/18 11:09 |

# EAST Search History

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|---|---|---|---|---|---|---|
| S138 | 4 | "6353855" | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/18 11:10 |
| S154 | 0 | (if$$since) and (forbid$4 near4 messag$3) | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/18 11:14 |
| S153 | 0 | (if$$since) and (restrict$3 near4 messag$3) | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/18 11:14 |
| S152 | 42 | (if$$since) and (error near4 messag$3) | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/18 11:14 |
| S156 | 9 | (if$$since) and ((denied or denial or reject$3) near4 messag$3) | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/18 11:15 |
| S155 | 25 | (if$$since) and (access$3 near4 messag$3) | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/18 11:27 |
| S157 | 13 | (if$$since) and (access$3 near4 restrict$3) | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/18 13:56 |
| S158 | 68 | (if$$since) and (restrict$3) | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/18 13:59 |
| S159 | 6 | (if$$since) and (forbid$4) | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/18 14:01 |
| S161 | 81 | (access$3 near5 restrict$3) and (condition$3 near4 get) | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/18 14:02 |
| S160 | 0 | (access$3 near5 restrict$3) and get$$since | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/18 14:02 |
| S162 | 3 | (access$3 near5 restrict$3) and (condition$3 near4 get) and (http near4 code) | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/18 14:05 |
| S164 | 1 | "6138162" and (if$$since) | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/18 14:06 |
| S163 | 46 | "6138162" | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/18 14:06 |

# EAST Search History

| | | | | | | |
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| S165 | 148 | ("3848193" \| "3987398" \| "4170782" \| "4186413" \| "4224644" \| "4287592" \| "4288809" \| "4305101" \| "4307446" \| "4338644" \| "4347498" \| "4381522" \| "4405946" \| "4429385" \| "4476488" \| "4477695" \| "4488179" \| "4519029" \| "4536791" \| "4575579" \| "4587514" \| "4602279" \| "4641205" \| "4645873" \| "4677434" \| "4677466" \| "4691351" \| "4691354" \| "4701794" \| "4703423" \| "4706121" \| "4722005" \| "4745559" \| "4751578" \| "4751669" \| "4768110" \| "4775935" \| "4788682" \| "4814972" \| "4815030" \| "4821102" \| "4823122" \| "4829569" \| "4866700" \| "4868866" \| "4873662" \| "4890321" \| "4899394" \| "4908707" \| "4908713" \| "4974149" \| "4975904" \| "4977455" \| "4987496" \| "4991011" \| "4992940" \| "4994908" \| "4994909" \| "5001554" \| "5008853" \| "5053883" \| "5058108" \| "5075771" \| "5077607" \| "5099319" \| "5105184" \| "5131020" \| "5133075" \| "5151789" \| "5177680" \| "5182640" \| "5187787" \| "5200823" \| "5220420" \| "5220501" \| "5220657" \| "5230048" \| "5231493" \| "5261042" \| "5265033" \| "5276869" \| "5283639" \| "5283731" \| "5285272" \| "5301028" \| "5305195" \| "5319455" \| "5319707" \| "5321750" \| "5327554" \| "5337155" \| "5339239" \| "5343300" \| "5345594" \| "5347632" \| "5353218" \| "5355490" \| "5357276" \| "5361393" \| "5379383" \| "5379421" \| "5404505" \| "5414773" \| "5426427" \| "5426594" \| "5428606" \| "5434978" \| "5438355" \| "5442771" \| "5446919" \| "5448262" \| "5465401" \| "5471629" \| "5473143" \| "5475740" \| "5479472" \| "5483466" \| "5485370" \| "5491820" \| "5493677" \| "5498003" \| "5511160" \| "5512935" \| "5515098" \| "5517605").PN. OR ("5524146" \| "5528490" \| "5557721" \| "5559868" \| "5577266" \| "5579471" \| "5579537" \| "5583563" \| "5584025" \| "5600366" \| "5604542" \| "5614940" \| "5617565" \| "5708780" \| "5740549" \| "5748190" \| "5751956" \| "5768528" \| "5784564" \| "5809242" \| "5819284" \| "5896506" \| | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/18 14:07 |

# EAST Search History

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|---|---|---|---|---|---|---|
| S16 | 125 | ("3848193" \| "3987398" \| "4170782" \| "4186413" \| "4224644" \| "4287592" \| "4288809" \| "4305101" \| "4307446" \| "4338644" \| "4347498" \| "4381522" \| "4405946" \| "4429385" \| "4476488" \| "4477695" \| "4488179" \| "4519029" \| "4536791" \| "4575579" \| "4587514" \| "4602279" \| "4641205" \| "4645873" \| "4677434" \| "4677466" \| "4691351" \| "4691354" \| "4701794" \| "4703423" \| "4706121" \| "4722005" \| "4745559" \| "4751578" \| "4751669" \| "4768110" \| "4775935" \| "4788682" \| "4814972" \| "4815030" \| "4821102" \| "4823122" \| "4829569" \| "4866700" \| "4868866" \| "4873662" \| "4890321" \| "4899394" \| "4908707" \| "4908713" \| "4974149" \| "4975904" \| "4977455" \| "4987496" \| "4991011" \| "4992940" \| "4994908" \| "4994909" \| "5001554" \| "5008853" \| "5053883" \| "5058108" \| "5075771" \| "5077607" \| "5099319" \| "5105184" \| "5131020" \| "5133075" \| "5151789" \| "5177680" \| "5182640" \| "5187787" \| "5200823" \| "5220420" \| "5220501" \| "5220657" \| "5230048" \| "5231493" \| "5261042" \| "5265033" \| "5276869" \| "5283639" \| "5283731" \| "5285272" \| "5301028" \| "5305195" \| "5319455" \| "5319707" \| "5321750" \| "5327554" \| "5337155" \| "5339239" \| "5343300" \| "5345594" \| "5347632" \| "5353218" \| "5355490" \| "5357276" \| "5361393" \| "5379383" \| "5379421" \| "5404505" \| "5414773" \| "5426427" \| "5426594" \| "5428606" \| "5434978" \| "5438355" \| "5442771" \| "5446919" \| "5448262" \| "5465401" \| "5471629" \| "5473143" \| "5475740" \| "5479472" \| "5483466" \| "5485370" \| "5491820" \| "5493677" \| "5498003" \| "5511160" \| "5512935" \| "5515098" \| "5517605").PN. OR ("5524146" \| "5528490" \| "5557721" \| "5559868" \| "5577266" \| "5579471" \| "5579537" \| "5583563" \| "5584025" \| "5600366" \| "5604542" \| "5614940" \| "5617565" \| "5708780" \| "5740549" \| "5748190" \| "5751956" \| "5768528" \| "5784564" \| "5809242" \| "5819284" \| "5896506" \| | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/18 14:08 |

# EAST Search History

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|---|---|---|---|---|---|---|
| S168 | 4 | S166 and (access$3 near4 restrict$3) | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/18 14:09 |
| S169 | 0 | S165 and (if$$since) | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/18 14:10 |

# EAST Search History

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| S167 | 125 | ("3848193" \| "3987398" \| "4170782" \| "4186413" \| "4224644" \| "4287592" \| "4288809" \| "4305101" \| "4307446" \| "4338644" \| "4347498" \| "4381522" \| "4405946" \| "4429385" \| "4476488" \| "4477695" \| "4488179" \| "4519029" \| "4536791" \| "4575579" \| "4587514" \| "4602279" \| "4641205" \| "4645873" \| "4677434" \| "4677466" \| "4691351" \| "4691354" \| "4701794" \| "4703423" \| "4706121" \| "4722005" \| "4745559" \| "4751578" \| "4751669" \| "4768110" \| "4775935" \| "4788682" \| "4814972" \| "4815030" \| "4821102" \| "4823122" \| "4829569" \| "4866700" \| "4868866" \| "4873662" \| "4890321" \| "4899394" \| "4908707" \| "4908713" \| "4974149" \| "4975904" \| "4977455" \| "4987496" \| "4991011" \| "4992940" \| "4994908" \| "4994909" \| "5001554" \| "5008853" \| "5053883" \| "5058108" \| "5075771" \| "5077607" \| "5099319" \| "5105184" \| "5131020" \| "5133075" \| "5151789" \| "5177680" \| "5182640" \| "5187787" \| "5200823" \| "5220420" \| "5220501" \| "5220657" \| "5230048" \| "5231493" \| "5261042" \| "5265033" \| "5276869" \| "5283639" \| "5283731" \| "5285272" \| "5301028" \| "5305195" \| "5319455" \| "5319707" \| "5321750" \| "5327554" \| "5337155" \| "5339239" \| "5343300" \| "5345594" \| "5347632" \| "5353218" \| "5355490" \| "5357276" \| "5361393" \| "5379383" \| "5379421" \| "5404505" \| "5414773" \| "5426427" \| "5426594" \| "5428606" \| "5434978" \| "5438355" \| "5442771" \| "5446919" \| "5448262" \| "5465401" \| "5471629" \| "5473143" \| "5475740" \| "5479472" \| "5483466" \| "5485370" \| "5491820" \| "5493677" \| "5498003" \| "5511160" \| "5512935" \| "5515098" \| "5517605").PN. OR ("5524146" \| "5528490" \| "5557721" \| "5559868" \| "5577266" \| "5579471" \| "5579537" \| "5583563" \| "5584025" \| "5600366" \| "5604542" \| "5614940" \| "5617565" \| "5708780" \| "5740549" \| "5748190" \| "5751956" \| "5768528" \| "5784564" \| "5809242" \| "5819284" \| "5896506" \| | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/18 14:10 |

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|---|---|---|---|---|---|---|
| S171 | 1 | (if$$since).ab. | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/18 14:11 |
| S170 | 0 | (if$$since).ti. | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/18 14:11 |
| S172 | 5 | (if$$since).clm. | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/18 14:12 |
| S175 | 132 | (if$$since) | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/18 14:13 |
| S174 | 1 | (if$$since) same forbid$4 | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/18 14:13 |
| S173 | 5 | (if$$since) same restrict$3 | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/18 14:13 |
| S177 | 38 | (if$$since) and security and restrict$3 | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/18 14:14 |
| S178 | 68 | (if$$since) and restrict$3 | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/18 14:15 |
| S176 | 60 | (if$$since) and security | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/18 14:15 |
| S181 | 146 | "6463474" if$$since | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/18 14:17 |
| S180 | 14 | "6463474" | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/18 14:17 |
| S179 | 1 | ("6463474").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/04/18 14:17 |
| S182 | 0 | "6463474" and if$$since | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/18 14:18 |
| S183 | 61 | if$$since and authenticat$3 | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/18 14:21 |
| S184 | 29 | if$$since and firewall | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/18 14:24 |

# EAST Search History

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|---|---|---|---|---|---|---|
| S185 | 30 | if$$since and (prevent$3 near4 access$3) | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/18 14:44 |
| S186 | 29 | if$$since and (firewall) | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/18 14:47 |
| S187 | 0 | if$$modif$6 and (firewall) | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/18 14:50 |
| S191 | 0 | if$$since and "712"/$.ccls. | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/18 14:51 |
| S188 | 12 | if$$modif$6 | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/18 14:51 |
| S193 | 1 | if$$since and "710"/$.ccls. | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/18 14:53 |
| S192 | 11 | if$$since and "711"/$.ccls. | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/18 14:53 |
| S194 | 62 | if$$since and (allow$3 near5 access$3) | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/18 15:22 |
| S190 | 88 | if$$since and "709"/$.ccls. | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/18 15:22 |
| S189 | 132 | if$$since | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/18 15:27 |
| S196 | 18 | "6311288" | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/19 08:55 |
| S195 | 2 | "6944124" | US-PGPUB; USPAT; USOCR | OR | ON | 2006/04/19 08:55 |
| S197 | 1 | ("20030137933").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/04/19 11:15 |
| S198 | 1 | ("6311288").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/04/19 12:27 |
| S199 | 0 | ("7039921").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/04/19 14:23 |

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| S201 | 1 | ("20020198983").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/04/19 14:32 |
| S200 | 1 | ("6950874").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/04/19 14:32 |
| L1 | 8 | (reason near4 rejection) and (if$$since) | US-PGPUB; USPAT; USOCR; EPO; JPO | OR | ON | 2007/03/15 17:41 |
| L3 | 153 | (if$$since) | US-PGPUB; USPAT; USOCR; EPO; JPO | OR | ON | 2007/03/15 17:42 |
| L4 | 55 | (if$$since) and (reject$3 or restrict$3 or denial) and (reason) | US-PGPUB; USPAT; USOCR; EPO; JPO | OR | ON | 2007/03/15 18:29 |
| L5 | 16 | (reason near4 (reject$3 or denial or denied or forbidden or restrict$3)) and (if$$since) | US-PGPUB; USPAT; USOCR; EPO; JPO | OR | ON | 2007/03/15 18:46 |
| L2 | 2 | (reason near4 restrict$3) and (if$$since) | US-PGPUB; USPAT; USOCR; EPO; JPO | OR | ON | 2007/03/15 18:46 |

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1 Workload analysis: Characterization of a large web site population with implications for content delivery

L. Bent, M. Rabinovich, G. M. Voelker, Z. Xiao

May 2004 **Proceedings of the 13th international conference on World Wide Web WWW '04**

**Publisher:** ACM Press

Full text available: pdf(727.47 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper presents a systematic study of the properties of a large number of Web sites hosted by a major ISP. To our knowledge, ours is the first comprehensive study of a large server farm that contains thousands of commercial Web sites. We also perform a simulation analysis to estimate potential performance benefits of content delivery networks (CDNs) for these Web sites. We make several interesting observations about the current usage of Web technologies and Web site performance characteristi ...

**Keywords**: content distribution, cookie, http, measurement, performance, web caching, workload characterization

2 Principled design of the modern Web architecture

Roy T. Fielding, Richard N. Taylor

May 2002 **ACM Transactions on Internet Technology (TOIT)**, Volume 2 Issue 2

**Publisher:** ACM Press

Full text available: pdf(335.47 KB) Additional Information: full citation, abstract, references, citings, index terms

The World Wide Web has succeeded in large part because its software architecture has been designed to meet the needs of an Internet-scale distributed hypermedia application. The modern Web architecture emphasizes scalability of component interactions, generality of interfaces, independent deployment of components, and intermediary components to reduce interaction latency, enforce security, and encapsulate legacy systems. In this article we introduce the Representational State Transfer (REST) arc ...

**Keywords**: Network-based applications, REST, World Wide Web

3 Replication for web hosting systems

Swaminathan Sivasubramanian, Michal Szymaniak, Guillaume Pierre, Maarten van Steen
September 2004 **ACM Computing Surveys (CSUR)**, Volume 36 Issue 3
**Publisher:** ACM Press
Full text available: pdf(374.99 KB) Additional Information: full citation, abstract, references, citings, index terms

Replication is a well-known technique to improve the accessibility of Web sites. It generally offers reduced client latencies and increases a site's availability. However, applying replication techniques is not trivial, and various Content Delivery Networks (CDNs) have been created to facilitate replication for digital content providers. The success of these CDNs has triggered further research efforts into developing advanced Web replica hosting systems. These are systems that ...

**Keywords**: Web replication, content delivery networks

4 Evolving RPC for active storage

Muthian Sivathanu, Andrea C. Arpaci-Dusseau, Remzi H. Arpaci-Dusseau
October 2002 **ACM SIGPLAN Notices , ACM SIGOPS Operating Systems Review , ACM SIGARCH Computer Architecture News , Proceedings of the 10th international conference on Architectural support for programming languages and operating systems ASPLOS-X**, Volume 37 , 36 , 30 Issue 10 , 5 , 5
**Publisher:** ACM Press
Full text available: pdf(1.56 MB) Additional Information: full citation, abstract, references

We introduce Scriptable RPC (SRPC), an RPC-based framework that enables distributed system services to take advantage of active components. Technology trends point to a world where each component in a system (whether disk, network interface, or memory) has substantial computational capabilities; however, traditional methods of building distributed services are not designed to take advantage of these new architectures, mandating wholesale change of the software base to exploit more powerful hardw ...

5 Performance: Clarifying the fundamentals of HTTP

Jeffery C. Mogul
May 2002 **Proceedings of the 11th international conference on World Wide Web WWW '02**
**Publisher:** ACM Press
Full text available: pdf(157.39 KB) Additional Information: full citation, abstract, references, citings, index terms

The simplicity of HTTP was a major factor in the success of the Web. However, as both the protocol and its uses have evolved, HTTP has grown complex. This complexity results in numerous problems, including confused implementors, interoperability failures, difficulty in extending the protocol, and a long specification without much documented rationale.Many of the problems with HTTP can be traced to unfortunate choices about fundamental definitions and models. This paper analyzes the current (HTTP ...

**Keywords**: HTTP, protocol design

6 Principled design of the modern Web architecture

Roy T. Fielding, Richard N. Taylor
June 2000 **Proceedings of the 22nd international conference on Software engineering ICSE '00**
**Publisher:** ACM Press
Full text available: pdf(217.34 KB) Additional Information: full citation, abstract, references, citings, index terms

The World Wide Web has succeeded in large part because its software architecture has been designed to meet the needs of an Internet-scale distributed hypermedia system. The modern Web architecture emphasizes scalability of component interactions, generality of interfaces, independent deployment of components, and intermediary components to reduce interaction latency, enforce security, and encapsulate legacy systems. In this paper, we introduce the Representational State Tra ...

**Keywords**: WWW, software architectural style, software architecture

7 Potential benefits of delta encoding and data compression for HTTP

Jeffrey C. Mogul, Fred Douglis, Anja Feldmann, Balachander Krishnamurthy

October 1997 **ACM SIGCOMM Computer Communication Review , Proceedings of the ACM SIGCOMM '97 conference on Applications, technologies, architectures, and protocols for computer communication SIGCOMM '97**, Volume 27 Issue 4

**Publisher:** ACM Press

Full text available: pdf(2.00 MB) Additional Information: full citation, abstract, references, citings, index terms

Caching in the World Wide Web currently follows a naive model, which assumes that resources are referenced many times between changes. The model also provides no way to update a cache entry if a resource does change, except by transferring the resource's entire new value. Several previous papers have proposed updating cache entries by transferring only the differences, or "delta," between the cached entry and the current value.In this paper, we make use of dynamic traces of the full contents of ...

8 Industry track papers: Learning nonstationary models of normal network traffic for detecting novel attacks

Matthew V. Mahoney, Philip K. Chan

July 2002 **Proceedings of the eighth ACM SIGKDD international conference on Knowledge discovery and data mining KDD '02**

**Publisher:** ACM Press

Full text available: pdf(1.12 MB) Additional Information: full citation, abstract, references, citings, index terms

Traditional intrusion detection systems (IDS) detect attacks by comparing current behavior to signatures of known attacks. One main drawback is the inability of detecting new attacks which do not have known signatures. In this paper we propose a learning algorithm that constructs models of normal behavior from attack-free network traffic. Behavior that deviates from the learned normal model signals possible novel attacks. Our IDS is unique in two respects. First, it is nonstationary, modeling pr ...

9 Performance: Cooperative leases: scalable consistency maintenance in content distribution networks

Anoop Ninan, Purushottam Kulkarni, Prashant Shenoy, Krithi Ramamritham, Renu Tewari

May 2002 **Proceedings of the 11th international conference on World Wide Web WWW '02**

**Publisher:** ACM Press

Full text available: pdf(201.14 KB) Additional Information: full citation, abstract, references, citings, index terms

In this paper, we argue that cache consistency mechanisms designed for stand-alone proxies do not scale to the large number of proxies in a content distribution network and are not flexible enough to allow consistency guarantees to be tailored to object needs. To meet the twin challenges of scalability and flexibility, we introduce the notion of cooperative consistency along with a mechanism, called *cooperative leases*, to achieve it.

By supporting &Dgr;-consistency semantics and by using ...

**Keywords**: content distribution networks, data consistency, data dissemination, dynamic data, leases, pullC, push, scalability, world wide web

**10** Aging through cascaded caches: performance issues in the distribution of web content

Edith Cohen, Haim Kaplan

August 2001 **ACM SIGCOMM Computer Communication Review , Proceedings of the 2001 conference on Applications, technologies, architectures, and protocols for computer communications SIGCOMM '01**, Volume 31 Issue 4

**Publisher:** ACM Press

Full text available: pdf(327.13 KB) Additional Information: full citation, abstract, references, citings, index terms

The Web is a distributed system, where data is stored and disseminated from both *origin* servers and *caches*. Origin servers provide the most up-to-date copy whereas caches store and serve copies that had been cached for a while. Origin servers do not maintain per-client state, and weak-consistency of cached copies is maintained by the origin server attaching to each copy an expiration time. Typically, the lifetime-duration of an object is fixed, and as a result, a copy fetched direc ...

**11** N for the price of 1: bundling web objects for more efficient content delivery

Craig E. Wills, Mikhail Mikhailov, Hao Shang

April 2001 **Proceedings of the 10th international conference on World Wide Web WWW '01**

**Publisher:** ACM Press

Full text available: pdf(208.61 KB) Additional Information: full citation, references, citings, index terms

**Keywords**: HTTP, delta encoding, persistent connections, web performance

**12** Modeling: Signature metrics for accurate and automated worm detection

Prem Gopalan, Kyle Jamieson, Panayiotis Mavrommatis, Massimiliano Poletto

November 2006 **Proceedings of the 4th ACM workshop on Recurring malcode WORM '06**

**Publisher:** ACM Press

Full text available: pdf(244.82 KB) Additional Information: full citation, abstract, references, index terms

This paper presents two simple algorithms, TreeCount and SenderCount that detect a broad range of exploit-based and email worms, respectively. These algorithms, when combined with automated payload fingerprinting, generate precise worm payload signatures. We show that fundamental traffic properties of most worms, such as infected hosts' attempts to propagate the worm, can serve to detect signatures of non-polymorphic worms reliably and rapidly.Our prototype mo ...

**Keywords**: network worms, traffic analysis, worm signatures

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Roy T. Fielding, Richard N. Taylor

May 2002 **ACM Transactions on Internet Technology (TOIT)**, Volume 2 Issue 2

**Publisher:** ACM Press

Full text available: pdf(335.47 KB) Additional Information: full citation, abstract, references, citings, index terms

The World Wide Web has succeeded in large part because its software architecture has been designed to meet the needs of an Internet-scale distributed hypermedia application. The modern Web architecture emphasizes scalability of component interactions, generality of interfaces, independent deployment of components, and intermediary components to reduce interaction latency, enforce security, and encapsulate legacy systems. In this article we introduce the Representational State Transfer (REST) arc ...

**Keywords**: Network-based applications, REST, World Wide Web

**2** Performance: Clarifying the fundamentals of HTTP

Jeffery C. Mogul

May 2002 **Proceedings of the 11th international conference on World Wide Web WWW '02**

**Publisher:** ACM Press

Full text available: pdf(157.39 KB) Additional Information: full citation, abstract, references, citings, index terms

The simplicity of HTTP was a major factor in the success of the Web. However, as both the protocol and its uses have evolved, HTTP has grown complex. This complexity results in numerous problems, including confused implementors, interoperability failures, difficulty in extending the protocol, and a long specification without much documented rationale.Many of the problems with HTTP can be traced to unfortunate choices about fundamental definitions and models. This paper analyzes the current (HTTP ...

**Keywords**: HTTP, protocol design

**3** LiteMinutes: an Internet-based system for multimedia meeting minutes

Patrick Chiu, John Boreczky, Andreas Girgensohn, Don Kimber

April 2001 **Proceedings of the 10th international conference on World Wide Web**

**WWW '01**
**Publisher:** ACM Press
Full text available: pdf(1.68 MB) Additional Information: full citation, references, citings, index terms

**Keywords:** hypermedia systems, meeting capture, meeting support systems, multimedia applications, note taking, video applications

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Relevance scale

1 Principled design of the modern Web architecture

Roy T. Fielding, Richard N. Taylor
May 2002 **ACM Transactions on Internet Technology (TOIT)**, Volume 2 Issue 2
**Publisher:** ACM Press

Full text available: pdf(335.47 KB) Additional Information: full citation, abstract, references, citings, index terms

The World Wide Web has succeeded in large part because its software architecture has been designed to meet the needs of an Internet-scale distributed hypermedia application. The modern Web architecture emphasizes scalability of component interactions, generality of interfaces, independent deployment of components, and intermediary components to reduce interaction latency, enforce security, and encapsulate legacy systems. In this article we introduce the Representational State Transfer (REST) arc ...

**Keywords**: Network-based applications, REST, World Wide Web

2 Replication for web hosting systems

Swaminathan Sivasubramanian, Michal Szymaniak, Guillaume Pierre, Maarten van Steen
September 2004 **ACM Computing Surveys (CSUR)**, Volume 36 Issue 3
**Publisher:** ACM Press

Full text available: pdf(374.99 KB) Additional Information: full citation, abstract, references, citings, index terms

Replication is a well-known technique to improve the accessibility of Web sites. It generally offers reduced client latencies and increases a site's availability. However, applying replication techniques is not trivial, and various Content Delivery Networks (CDNs) have been created to facilitate replication for digital content providers. The success of these CDNs has triggered further research efforts into developing advanced Web replica hosting systems. These are systems that ...

**Keywords**: Web replication, content delivery networks

3 Industry track papers: Learning nonstationary models of normal network traffic for detecting novel attacks

Matthew V. Mahoney, Philip K. Chan

July 2002 **Proceedings of the eighth ACM SIGKDD international conference on Knowledge discovery and data mining KDD '02**
**Publisher:** ACM Press

Full text available: pdf(1.12 MB) Additional Information: full citation, abstract, references, citings, index terms

Traditional intrusion detection systems (IDS) detect attacks by comparing current behavior to signatures of known attacks. One main drawback is the inability of detecting new attacks which do not have known signatures. In this paper we propose a learning algorithm that constructs models of normal behavior from attack-free network traffic. Behavior that deviates from the learned normal model signals possible novel attacks. Our IDS is unique in two respects. First, it is nonstationary, modeling pr ...

4 Workload analysis: Characterization of a large web site population with implications for content delivery
L. Bent, M. Rabinovich, G. M. Voelker, Z. Xiao
May 2004 **Proceedings of the 13th international conference on World Wide Web WWW '04**
**Publisher:** ACM Press

Full text available: pdf(727.47 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper presents a systematic study of the properties of a large number of Web sites hosted by a major ISP. To our knowledge, ours is the first comprehensive study of a large server farm that contains thousands of commercial Web sites. We also perform a simulation analysis to estimate potential performance benefits of content delivery networks (CDNs) for these Web sites. We make several interesting observations about the current usage of Web technologies and Web site performance characteristi ...

**Keywords**: content distribution, cookie, http, measurement, performance, web caching, workload characterization

5 Performance: Clarifying the fundamentals of HTTP
Jeffery C. Mogul
May 2002 **Proceedings of the 11th international conference on World Wide Web WWW '02**
**Publisher:** ACM Press

Full text available: pdf(157.39 KB) Additional Information: full citation, abstract, references, citings, index terms

The simplicity of HTTP was a major factor in the success of the Web. However, as both the protocol and its uses have evolved, HTTP has grown complex. This complexity results in numerous problems, including confused implementors, interoperability failures, difficulty in extending the protocol, and a long specification without much documented rationale.Many of the problems with HTTP can be traced to unfortunate choices about fundamental definitions and models. This paper analyzes the current (HTTP ...

**Keywords**: HTTP, protocol design

6 Principled design of the modern Web architecture
Roy T. Fielding, Richard N. Taylor
June 2000 **Proceedings of the 22nd international conference on Software engineering ICSE '00**
**Publisher:** ACM Press

Full text available: pdf(217.34 KB) Additional Information: full citation, abstract, references, citings, index

terms

The World Wide Web has succeeded in large part because its software architecture has been designed to meet the needs of an Internet-scale distributed hypermedia system. The modern Web architecture emphasizes scalability of component interactions, generality of interfaces, independent deployment of components, and intermediary components to reduce interaction latency, enforce security, and encapsulate legacy systems. In this paper, we introduce the Representational State Tra ...

**Keywords**: WWW, software architectural style, software architecture

7 Performance: Cooperative leases: scalable consistency maintenance in content distribution networks

Anoop Ninan, Purushottam Kulkarni, Prashant Shenoy, Krithi Ramamritham, Renu Tewari
May 2002 **Proceedings of the 11th international conference on World Wide Web WWW '02**
**Publisher:** ACM Press
Full text available: pdf(201.14 KB) Additional Information: full citation, abstract, references, citings, index terms

In this paper, we argue that cache consistency mechanisms designed for stand-alone proxies do not scale to the large number of proxies in a content distribution network and are not flexible enough to allow consistency guarantees to be tailored to object needs. To meet the twin challenges of scalability and flexibility, we introduce the notion of cooperative consistency along with a mechanism, called *cooperative leases*, to achieve it. By supporting &Dgr;-consistency semantics and by using ...

**Keywords**: content distribution networks, data consistency, data dissemination, dynamic data, leases, pullC, push, scalability, world wide web

8 Evolving RPC for active storage

Muthian Sivathanu, Andrea C. Arpaci-Dusseau, Remzi H. Arpaci-Dusseau
October 2002 **ACM SIGPLAN Notices , ACM SIGOPS Operating Systems Review , ACM SIGARCH Computer Architecture News , Proceedings of the 10th international conference on Architectural support for programming languages and operating systems ASPLOS-X**, Volume 37 , 36 , 30 Issue 10 , 5 , 5
**Publisher:** ACM Press
Full text available: pdf(1.56 MB) Additional Information: full citation, abstract, references

We introduce Scriptable RPC (SRPC), an RPC-based framework that enables distributed system services to take advantage of active components. Technology trends point to a world where each component in a system (whether disk, network interface, or memory) has substantial computational capabilities; however, traditional methods of building distributed services are not designed to take advantage of these new architectures, mandating wholesale change of the software base to exploit more powerful hardw ...

9 Adaptive push-pull: disseminating dynamic web data

Pavan Deolasee, Amol Katkar, Ankur Panchbudhe, Krithi Ramamritham, Prashant Shenoy
April 2001 **Proceedings of the 10th international conference on World Wide Web WWW '01**
**Publisher:** ACM Press
Full text available: pdf(152.08 KB) Additional Information: full citation, references, citings, index terms

**Keywords**: World Wide Web, data dissemination, dynamic data, pull, push, resiliency,

scalability, temporal coherency

10 Potential benefits of delta encoding and data compression for HTTP

Jeffrey C. Mogul, Fred Douglis, Anja Feldmann, Balachander Krishnamurthy
October 1997 **ACM SIGCOMM Computer Communication Review , Proceedings of the ACM SIGCOMM '97 conference on Applications, technologies, architectures, and protocols for computer communication SIGCOMM '97**, Volume 27 Issue 4
**Publisher:** ACM Press

Full text available: pdf(2.00 MB) Additional Information: full citation, abstract, references, citings, index terms

Caching in the World Wide Web currently follows a naive model, which assumes that resources are referenced many times between changes. The model also provides no way to update a cache entry if a resource does change, except by transferring the resource's entire new value. Several previous papers have proposed updating cache entries by transferring only the differences, or "delta," between the cached entry and the current value.In this paper, we make use of dynamic traces of the full contents of ...

11 Aging through cascaded caches: performance issues in the distribution of web content

Edith Cohen, Haim Kaplan
August 2001 **ACM SIGCOMM Computer Communication Review , Proceedings of the 2001 conference on Applications, technologies, architectures, and protocols for computer communications SIGCOMM '01**, Volume 31 Issue 4
**Publisher:** ACM Press

Full text available: pdf(327.13 KB) Additional Information: full citation, abstract, references, citings, index terms

The Web is a distributed system, where data is stored and disseminated from both *origin* servers and *caches*. Origin servers provide the most up-to-date copy whereas caches store and serve copies that had been cached for a while. Origin servers do not maintain per-client state, and weak-consistency of cached copies is maintained by the origin server attaching to each copy an expiration time. Typically, the lifetime-duration of an object is fixed, and as a result, a copy fetched direc ...

12 N for the price of 1: bundling web objects for more efficient content delivery

Craig E. Wills, Mikhail Mikhailov, Hao Shang
April 2001 **Proceedings of the 10th international conference on World Wide Web WWW '01**
**Publisher:** ACM Press
Full text available: pdf(208.61 KB) Additional Information: full citation, references, citings, index terms

**Keywords**: HTTP, delta encoding, persistent connections, web performance

13 Modeling: Signature metrics for accurate and automated worm detection

Prem Gopalan, Kyle Jamieson, Panayiotis Mavrommatis, Massimiliano Poletto
November 2006 **Proceedings of the 4th ACM workshop on Recurring malcode WORM '06**
**Publisher:** ACM Press
Full text available: pdf(244.82 KB) Additional Information: full citation, abstract, references, index terms

This paper presents two simple algorithms, TreeCount and SenderCount that detect a

broad range of exploit-based and email worms, respectively. These algorithms, when combined with automated payload fingerprinting, generate precise worm payload signatures. We show that fundamental traffic properties of most worms, such as infected hosts' attempts to propagate the worm, can serve to detect signatures of non-polymorphic worms reliably and rapidly.Our prototype mo ...

**Keywords**: network worms, traffic analysis, worm signatures

**14** Papers: A survey of web caching schemes for the Internet

Jia Wang
October 1999 **ACM SIGCOMM Computer Communication Review**, Volume 29 Issue 5
**Publisher:** ACM Press
Full text available: pdf(1.15 MB) Additional Information: full citation, abstract, references, citings

The World Wide Web can be considered as a large distributed information system that provides access to shared data objects. As one of the most popular applications currently running on the Internet, the World Wide Web is of an exponential growth in size, which results in network congestion and server overloading. Web caching has been recognized as one of the effective schemes to alleviate the service bottleneck and reduce the network traffic, thereby minimize the user access latency. In this pap ...

**15** Web-conscious storage management for web proxies

Evangelos P. Markatos, Dionisios N. Pnevmatikatos, Michail D. Flouris, Manolis G. H. Katevenis
December 2002 **IEEE/ACM Transactions on Networking (TON)**, Volume 10 Issue 6
**Publisher:** IEEE Press
Full text available: pdf(603.11 KB) Additional Information: full citation, abstract, references, citings, index terms

Many proxy servers are limited by their file I/O needs. Even when a proxy is configured with sufficient I/O hardware, the file system software often fails to provide the available bandwidth to the proxy processes. Although specialized file systems may offer a significant improvement and overcome these limitations, we believe that user-level disk management on top of industry-standard file systems can offer similar performance advantages. In this paper, we study the overheads associated with file ...

**Keywords**: secondary storage, web caching, web performance, web proxies

**16** Session 7: Squirrel: a decentralized peer-to-peer web cache

Sitaram Iyer, Antony Rowstron, Peter Druschel
July 2002 **Proceedings of the twenty-first annual symposium on Principles of distributed computing PODC '02**
**Publisher:** ACM Press
Full text available: pdf(1.22 MB) Additional Information: full citation, abstract, references, citings

This paper presents a decentralized, peer-to-peer web cache called Squirrel. The key idea is to enable web browsers on desktop machines to share their local caches, to form an efficient and scalable web cache, without the need for dedicated hardware and the associated administrative cost. We propose and evaluate decentralized web caching algorithms for Squirrel, and discover that it exhibits performance comparable to a centralized web cache in terms of hit ratio, bandwidth usage and latency. It ...

**17** Performance Workload Char. and Adaptation: Aliasing on the world wide web: prevalence and performance implications

Terence Kelly, Jeffrey Mogul
May 2002 **Proceedings of the 11th international conference on World Wide Web WWW '02**
**Publisher:** ACM Press

Full text available: pdf(376.28 KB) Additional Information: full citation, abstract, references, citings, index terms

Aliasing occurs in Web transactions when requests containing different URLs elicit replies containing identical data payloads. Conventional caches associate stored data with URLs and can therefore suffer redundant payload transfers due to aliasing and other causes. Existing research literature, however, says little about the prevalence of aliasing in user-initiated transactions, or about redundant payload transfers in conventional Web cache hierarchies.This paper quantifies the extent of aliasin ...

**Keywords**: DTD, HTTP, WWW, Zipf's law, aliasing, cache hierarchies, caching, duplicate suppression, duplicate transfer detection, hypertext transfer protocol, performance analysis, redundant transfers, resource modification, world wide web

18 LiteMinutes: an Internet-based system for multimedia meeting minutes

Patrick Chiu, John Boreczky, Andreas Girgensohn, Don Kimber
April 2001 **Proceedings of the 10th international conference on World Wide Web WWW '01**
**Publisher:** ACM Press
Full text available: pdf(1.68 MB) Additional Information: full citation, references, citings, index terms

**Keywords**: hypermedia systems, meeting capture, meeting support systems, multimedia applications, note taking, video applications

19 Crawler-Friendly Web Servers

Onn Brandman, Junghoo Cho, Hector Garcia-Molina, Narayanan Shivakumar
September 2000 **ACM SIGMETRICS Performance Evaluation Review**, Volume 28 Issue 2
**Publisher:** ACM Press
Full text available: pdf(513.04 KB) Additional Information: full citation, abstract, citings, index terms

In this paper we study how to make web servers (e.g., Apache) more crawler friendly. Current web servers offer the same interface to crawlers and regular web surfers, even though crawlers and surfers have very different performance requirements. We evaluate simple and easy-to-incorporate modifications to web servers so that there are significant bandwidth savings. Specifically, we propose that web servers export meta-data archives decribing their content.

20 OAI in action: The OAI-PMH static repository and static repository gateway

Patrick Hochstenbach, Henry Jerez, Herbert Van de Sompel
May 2003 **Proceedings of the 3rd ACM/IEEE-CS joint conference on Digital libraries JCDL '03**
**Publisher:** IEEE Computer Society

Full text available: pdf(448.56 KB) Additional Information: full citation, abstract, references, citings, index terms

Although the OAI-PMH specification is focused on making it straightforward for data providers to expose metadata, practice shows that in certain significant situations deployment of OAI-PMH conformant repository software remains problematic. In this paper, we report on research aimed at devising solutions to further lower the barrier to make metadata collections harvestable. We provide an in depth description of an

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Relevance scale

**21** A scalable Web cache consistency architecture

Haobo Yu, Lee Breslau, Scott Shenker
August 1999 **ACM SIGCOMM Computer Communication Review , Proceedings of the conference on Applications, technologies, architectures, and protocols for computer communication SIGCOMM '99**, Volume 29 Issue 4
**Publisher:** ACM Press

Full text available: pdf(1.71 MB) Additional Information: full citation, abstract, references, citings, index terms

The rapid increase in web usage has led to dramatically increased loads on the network infrastructure and on individual web servers. To ameliorate these mounting burdens, there has been much recent interest in web caching architectures and algorithms. Web caching reduces network load, server load, and the latency of responses. However, web caching has the disadvantage that the pages returned to clients by caches may be *stale*, in that they may not be consistent with the version currently o ...

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